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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,540	01/23/2002	Richard M. T. Chen	MR2863-41	3245
4586	7590 08/25/2003			
ROSENBERG, KLEIN & LEE			EXAMINER	
3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			EINSMANN, MARGARET V	
			ART UNIT	PAPER NUMBER

1751

DATE MAILED: 08/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s)	
10/052,540 CHEN ET AL.	
Office Action Summary Examiner Art Unit	
Margaret Einsmann 1751	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status	on.
1) Responsive to communication(s) filed on	
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims	is
4) Claim(s) 1-13 is/are pending in the application.	
4a) Of the above claim(s) is/are withdrawn from consideration.	
5) Claim(s) is/are allowed.	
6)☐ Claim(s) <u>1-13</u> is/are rejected.	
7) Claim(s) is/are objected to.	
8) Claim(s) are subject to restriction and/or election requirement.	
Application Papers	
9) The specification is objected to by the Examiner.	
10)☑ The drawing(s) filed on └───────────────────────────────────	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
11) The proposed drawing correction filed or is: a) approved b) disapproved by the Examiner.	
If approved, corrected drawings are required in reply to this Office action.	
12) The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. §§ 119 and 120	
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).	
a)□ All b)□ Some * c)□ None of:	
1. Certified copies of the priority documents have been received.	
2. Certified copies of the priority documents have been received in Application No	
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 	
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional applica	tion).
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	·
Attachment(s)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 04-01)

Art Unit: 1751

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3,5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Paskalov et al., US 5,344,462.

Paskalov discloses a system of enhancing the hydrophilic surface properties of materials including those made of natural and synthetic fibers by treating with a low temperature plasma of an inorganic gas at a pressure of 0.01-10 Torr. See col 1 lines 59-66. The gases include argon, nitrogen and ammonia as claimed in claim 6 are listed in col 2 line 1. The process is described by referring to the apparatus illustrated in Figure 1. Note the description in col 3 lines 37-62. Material is placed in an enclosed chamber as claimed. Gas is supplied from a gas supplying device as claimed; a high power acts to ionize the gas to produce plasma gas. The time of treatment is 1 to 300 seconds which includes the time claimed in instant claim 8. As a result of said treatment, fabrics better absorb water and other liquids, which is what applicant refers to as generating high hydrophilicity. Col 3 lines 63-64.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 10/052,540

Art Unit: 1751

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paskalov et al, US 5,344,462.

Paskalov et al. is relied upon as set forth in the above rejection as disclosing a system of enhancing the hydrophilic surface properties of materials including those made of natural and synthetic fibers by treating with a low temperature plasma of an inorganic gas at a pressure of 0.01-10 Torr. Regarding claim 4, they do not disclose the use of the system for mixed fibers, yet they describe the process as being applicable to natural and synthetic fibers, making the use on mixed fibrous material an obvious variant. Regarding the limitations of claims 9-13, there is no disclosure of the specific properties defined in those claims since patentee use different measurements to determine hydrophilicity than does patentee. It would have been obvious to the man having skill in the art at the time the invention was made that the surface properties of the fabrics treated by the system of Paskalov et al. are the same or at least equivalent to the properties claimed because the process is the same as claimed, and Paskalov states at col 1 last paragraph that the hydrophilic properties are enhanced. Additionally, the tables show enhanced wetting angle of polyolefins tested, improved capillary absorption, and effect on fluid time. All of these parameters are related to the improvement of hydrophilicity.

Application/Control Number: 10/052,540

Art Unit: 1751

Note the reference to USSR patent 1030445 which treats textile materials including polyester with glow discharge plasma at 0.02-0.04 Torr for 60-90 seconds to achieve enhanced hydrophilic properties.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Margaret Einsmann whose telephone number is 703-308-3826. The examiner can normally be reached on 7:00 AM -4:30 PM M-Th and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 703-308-4708. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Margaret Eisone Margaret Einsmann Primary Examiner Page 4

Art Unit 1751